

BEST AVAILABLE COPY

Sheet 1 of 1

FORM PTO-1449

Atty. Docket No.:
C382.12-0163

Appl. No.:
10/656,526

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

First Named Inventor:

Kevin I. Bertness

Filing Date

Group Art:

September 5, 2003

2858

U.S. PATENT DOCUMENTS


| Examiner Initial | Document No. | Date | Name | Class | Sub Class | Filing Date If Appropriate |
|------------------|--------------|--------------|---------|----------------|-----------|----------------------------|
| JT | AA | 2002/0030495 | 3/2002 | Kechmire | 324 | 427 |
| | AB | 4,352,067 | 9/1982 | Ottone | 324 | 434 |
| | AC | 4,360,780 | 11/1982 | Skutch, Jr. | 324 | 437 |
| | AD | 4,723,656 | 2/1988 | Kiernan et al. | 206 | 705 |
| | AE | 4,874,679 | 10/1989 | Miyagawa | 429 | 91 |
| | AF | 5,432,025 | 7/1995 | Cox | 429 | 65 |
| JT | AG | 5,707,015 | 1/1998 | Guthrie | 241 | 120 |
| | AH | | | | | |
| | AI | | | | | |
| | AJ | | | | | |
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EXAMINER:

DATE CONSIDERED: 9/29/04

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|------------------|--------------|--------------|---------|-------------------|-----------|----------------------------|
| JT | AA | 2002/0050163 | 5/2/02 | Makhija et al. | 73 | 116 |
| | AB | 2003/0184262 | 10/2/03 | Makhija | 320 | 130 |
| | AC | 2004/0000590 | 1/1/04 | Raichle et al. | 235 | 462.01 |
| | AD | 2004/0000891 | 1/1/04 | Raichle et al. | 320 | 107 |
| | AE | 2004/0000893 | 1/1/04 | Raichle et al. | 320 | 135 |
| | AF | 2004/0000913 | 1/1/04 | Raichle et al. | 324 | 426 |
| | AG | 2004/0000915 | 1/1/04 | Raichle et al. | 324 | 522 |
| | AH | 2004/0002824 | 1/1/04 | Raichle et al. | 702 | 63 |
| | AI | 2004/0002825 | 1/1/04 | Raichle et al. | 702 | 63 |
| | AJ | 2004/0002836 | 1/1/04 | Raichle et al. | 702 | 188 |
| | AK | 2004/0049361 | 3/11/04 | Hamdan et al. | 702 | 115 |
| | AL | 2004/0051533 | 3/18/04 | Namaky | 324 | 426 |
| | AM | 2004/0054503 | 3/18/04 | Namaky | 702 | 183 |
| | AN | 4,926,330 | 5/15/90 | Abe et al. | 364 | 424.03 |
| | AO | 4,949,046 | 8/14/90 | Seyfang | 324 | 427 |
| | AP | 5,321,627 | 6/14/94 | Reher | 364 | 483 |
| | AQ | 5,872,453 | 2/16/99 | Shimoyama et al. | 324 | 431 |
| | AR | 6,037,778 | 3/14/00 | Makhija | 324 | 433 |
| | AS | 6,061,638 | 5/9/00 | Joyce | 702 | 63 |
| | AT | 6,275,008 | 8/14/01 | Arai et al. | 320 | 132 |
| | AU | 6,359,442 | 3/19/02 | Henningson et al. | 324 | 426 |
| | AV | 6,384,608 | 5/7/02 | Namaky | 324 | 430 |
| JT | AW | 6,388,448 | 5/14/02 | Cervas | 324 | 426 |

EXAMINER:

John T. Tule

DATE CONSIDERED:

9-29-04

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| Examiner Initial | Document No. | Date | Name | Class | Sub Class | Filing Date If Appropriate |
|---------------------|--------------|-----------|---------|-----------------|--------------|-------------------------------|
| JT | BA | 6,396,278 | 5/28/02 | Makhija | 324 | 402 |
| I | BB | 6,570,385 | 5/27/03 | Roberts et al. | 324 | 378 |
| I | BC | 6,629,054 | 9/30/03 | Makhija et al. | 702 | 113 |
| JT | BD | D442,503 | 5/22/01 | Lundbeck et al. | D10 | 77 |

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| | | |
|----|----|---|
| JT | BE | Notification of Transmittal of the International Search Report along with the Search Report for International Application No. PCT/US03/27696, filed September 4, 2003, date of mailing April 15, 2004 |
| JT | BF | Operator's Manual for "Modular Computer Analyzer," SUN, Model MCA 3000, Table of Contents and pages 1-1 to 1-2; 2-1 to 2-19; 3-1 to 3-47; 4-1 to 4-27; 5-1 to 5-18; 6-1 to 6-16; 7-1 to 7-9; 8-1 to 8-5; 9-1 to 9-13; 10-1 to 10-10; 11-1 to 11-22; 12-1 to 12-33; 13-1 to 13-2; 14-1 to 14-13 (1991) |
| JT | BG | ALLEN TEST, Testproducts Division, "Programmed Training Course for 62-000 Series Smart Engine Analyzer," 2 page cover, Table of Contents, pages 1-207 (1984) |

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John A. L.

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|------------------|-----------------|---------|-----------------|-------|-----------|----------------------------|
| JT | AA 2002/0010558 | 1/2002 | Bertness et al. | 702 | 63 | |
| | AB 2002/0176010 | 11/2002 | Wallach et al. | 348 | 229.1 | |
| | AC 2003/0184306 | 10/2003 | Bertness et al. | 324 | 426 | |
| | AD 2003/0025481 | 2/2003 | Bertness | 320 | 155 | |
| | AE 2004/0000891 | 1/2004 | Raichle et al. | 320 | 107 | |
| | AF 2,000,665 | 5/1935 | Neal | | | |
| | AG 3,750,011 | 7/1973 | Kreps | 324 | 29.5 | |
| | AH 3,652,341 | 3/1972 | Halsall et al. | 136 | 176 | |
| | AI 3,796,124 | 3/1974 | Crosa | 85 | 36 | |
| | AJ 4,023,882 | 5/1977 | Pettersson | 339 | 96 | |
| | AK 4,056,764 | 11/1977 | Endo et al. | 320 | 3 | |
| | AL 4,160,916 | 7/1979 | Papsideris | 307 | 10 | |
| | AM 4,280,457 | 7/1981 | Bloxham | 123 | 198 | |
| | AN 4,620,767 | 11/1986 | Woolf | 339 | 255 | |
| | AO 4,933,845 | 6/1990 | Hayes | 364 | 200 | |
| | AQ 4,934,957 | 6/1990 | Bellusci | 439 | 504 | |
| | AQ 5,108,320 | 4/1992 | Kimber | 439 | 883 | |
| JT | AR 5,159,272 | 10/1992 | Rao et al. | 324 | 429 | |

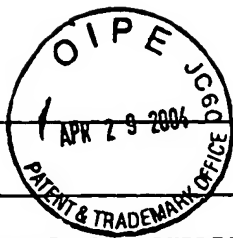
FOREIGN PATENT DOCUMENTS

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| AS | | | | | | |

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| AT | |
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|------------------|--------------|-----------|---------|-------------------|-----------|----------------------------|
| JT | BA | 5,313,152 | 5/1994 | Wozniak et al. | 320 | 6 |
| | BB | 5,323,337 | 6/1994 | Wilson et al. | 364 | 574 |
| | BC | 5,325,041 | 6/1994 | Briggs | 320 | 44 |
| | BD | 5,412,308 | 5/1995 | Brown | 323 | 267 |
| | BE | 5,453,027 | 9/1995 | Buell et al. | 439 | 433 |
| | BF | 5,745,044 | 4/1998 | Hyatt, Jr. et al. | 340 | 825.31 |
| | BG | 5,747,967 | 5/1998 | Muljadi et al. | 320 | 39 |
| | BH | 5,772,468 | 6/1998 | Kowalski et al. | 439 | 506 |
| | BI | 5,780,980 | 7/1998 | Naito | 318 | 139 |
| | BJ | 5,850,113 | 12/1998 | Weimer et al. | 307 | 125 |
| | BK | 5,865,638 | 2/1999 | Trafton | 439 | 288 |
| | BL | 5,978,805 | 11/1999 | Carson | 707 | 10 |
| | BM | 5,982,138 | 11/1999 | Krieger | 320 | 105 |
| | BN | 6,005,759 | 12/1999 | Hart et al. | 361 | 66 |
| | BO | 6,031,368 | 2/2000 | Klippel et al. | 324 | 133 |
| | BP | 6,046,514 | 4/2000 | Rouillard et al. | 307 | 77 |
| | BQ | 6,064,372 | 5/2000 | Kahkoska | 345 | 173 |
| JT | BR | 6,081,109 | 6/2000 | Seymour et al. | 324 | 127 |

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| BT | |
| EXAMINER: <i>John T. [Signature]</i> | DATE CONSIDERED: 9-29-04 |

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|------------------|--------------|-----------|---------|------------------|-----------|----------------------------|
| JT | CA | 6,158,000 | 12/2000 | Collins | 713 | 1 |
| | CB | 6,211,651 | 4/2001 | Nemoto | 320 | 133 |
| | CC | 6,222,342 | 4/2001 | Eggert et al. | 320 | 105 |
| | CD | 6,238,253 | 5/2001 | Qualls | 439 | 759 |
| | CE | 6,242,887 | 6/2001 | Burke | 320 | 104 |
| | CF | 6,259,170 | 7/2001 | Limoge et al. | 307 | 10.8 |
| | CG | 6,356,042 | 3/2002 | Kahlon et al. | 318 | 138 |
| | CH | 6,526,361 | 2/2003 | Jones et al. | 702 | 63 |
| | CI | 6,531,848 | 3/2003 | Chitsazan et al. | 320 | 153 |
| | CJ | 6,600,815 | 7/2003 | Walding | 379 | 93.04 |
| | CK | 6,618,644 | 9/2003 | Bean | 700 | 231 |
| | CL | 6,628,011 | 9/2003 | Droppo et al. | 307 | 43 |
| | CM | 6,667,624 | 12/2003 | Raichle eta l. | 324 | 522 |
| JT | CN | 6,679,212 | 1/2004 | Kelling | 123 | 179.28 |

FOREIGN PATENT DOCUMENTS

| | | Document No. | Date | Country | Class | Sub Class | Translation Yes No |
|----|----|----------------|---------|---------------|-------|-----------|--------------------|
| JT | CO | JP 11103503 A | 4/1999 | Japan | | | X(Abstract) |
| JT | CP | WO 01/59443 | 2/9/01 | WIPO | | | X |
| JT | CQ | GB 2 246 916 A | 10/8/90 | Great Britian | | | |

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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| JT | CR | "Notification of Transmittal of The International Search Report or the Declaration", PCT/US03/07837. |
| | CS | |

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U.S. PATENT DOCUMENTS

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|------------------|--------------|-----------|---------|-----------------|-----------|----------------------------|
| JT | AA | 2,514,745 | 7/11/50 | Dalzell | 171 | 95 |
| | AB | 3,593,099 | 7/13/71 | Scholl | 320 | 13 |
| | AC | 3,607,673 | 9/21/71 | Seyl | 204 | 1 |
| | AD | 3,676,770 | 7/11/72 | Sharaf et al. | 324 | 29.5 |
| | AE | 3,729,989 | 5/1/73 | Little | 73 | 133 |
| | AF | 3,753,094 | 8/14/73 | Furuishi et al. | 324 | 29.5 |
| | AG | 3,808,522 | 4/30/74 | Sharaf | 324 | 29.5 |
| | AH | 3,811,089 | 5/14/74 | Strezelewicz | 324 | 170 |
| | AI | 3,873,911 | 3/25/75 | Champlin | 324 | 29.5 |
| | AJ | 3,886,443 | 5/27/75 | Miyakawa et al. | 324 | 29.5 |
| | AK | 3,889,248 | 6/10/75 | Ritter | 340 | 249 |
| JT | AL | 3,906,329 | 9/16/75 | Bader | 320 | 44 |

FOREIGN PATENT DOCUMENTS

| | | Document No. | Date | Country | Class | Sub Class | Translation Yes No |
|----|----|--------------|---------|---------|-------|-----------|--------------------|
| JT | AM | 59-17892 | 1/30/84 | Japan | | | Abstract Only |
| JT | AN | 59-17893 | 1/30/84 | Japan | | | Abstract Only |
| JT | AO | 59-17894 | 1/30/84 | Japan | | | Abstract Only |

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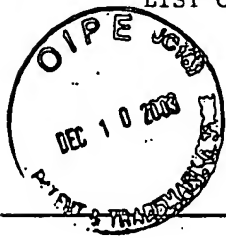
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|----|----|--|
| JT | AP | "Electrochemical Impedance Spectroscopy in Battery Development and Testing", <u>Batteries International</u> , April 1997, pgs. 59 and 62-63. |
| JT | AQ | "Battery Impedance", by E. Willihnganz et al., <u>Electrical Engineering</u> , September 1959, pgs. 922-925. |
| JT | AR | "Determining The End of Battery Life", by S. DeBardelaben, <u>IEEE</u> , 1986, pgs. 365-368. |
| JT | AS | "A Look at the Impedance of a Cell", by S. DeBardelaben, <u>IEEE</u> , 1988, pgs. 394-397. |

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|------------------|--------------|-----------|----------|---------------------|-----------|----------------------------|
| JT | AT | 3,909,708 | 9/30/75 | Champlin | 324 | 29.5 |
| | AU | 3,936,744 | 2/3/76 | Perlmutter | 324 | 158 |
| | AV | 3,946,299 | 3/23/76 | Christianson et al. | 320 | 43 |
| | AW | 3,947,757 | 3/30/76 | Grube et al. | 324 | 28 |
| | AX | 3,969,667 | 7/13/76 | McWilliams | 324 | 29.5 |
| | AY | 3,979,664 | 9/7/76 | Harris | 324 | 17 |
| | AZ | 3,984,762 | 10/5/76 | Dowgiallo, Jr. | 324 | 29.5 |
| | BA | 3,984,768 | 10/5/76 | Staples | 324 | 62 |
| | BB | 4,008,619 | 2/22/77 | Alcaide et al. | 73 | 398 |
| | BC | 4,053,824 | 10/11/77 | Dupuis et al. | 324 | 29.5 |
| | BD | 4,070,624 | 1/24/78 | Taylor | 327 | 158 |
| JT | BE | 4,086,531 | 4/25/78 | Bernier | 324 | 158 |

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| | | Document No. | Date | Country | Class | Sub Class | Translation Yes No |
|----|----|--------------|----------|---------|-------|-----------|--------------------|
| JT | BF | 60225078 | 11/9/85 | Japan | | | Abstract Only |
| JT | BG | 04372536 | 12/25/92 | Japan | | | Abstract Only |
| JT | BH | 04131779 | 5/6/92 | Japan | | | Abstract Only |

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

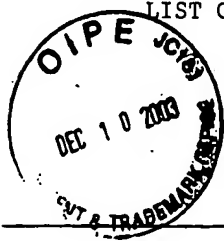
| | | |
|----|----|---|
| JT | BI | "The Impedance of Electrical Storage Cells", by N.A. Hampson et al., <u>Journal of Applied Electrochemistry</u> , 1980, pgs. 3-11. |
| | BJ | "A Package for Impedance/Admittance Data Analysis", by B. Boukamp, <u>Solid State Ionics</u> , 1986, pgs. 136-140. |
| JT | BK | "Precision of Impedance Spectroscopy Estimates of Bulk, Reaction Rate, and Diffusion Parameters", by J. Macdonald et al., <u>J. Electroanal. Chem.</u> , 1991, pgs. 1-11. |

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|------------------|--------------|-----------|----------|-----------------|-----------|----------------------------|
| J7 | BL | 4,112,351 | 9/5/78 | Back et al. | 324 | 16 |
| | BM | 4,114,083 | 9/12/78 | Benham et al. | 320 | 39 |
| | BN | 4,126,874 | 11/21/78 | Suzuki et al. | 354 | 60 |
| | BO | 4,178,546 | 12/11/79 | Hulls et al. | 324 | 158 |
| | BP | 4,193,025 | 3/11/80 | Frailing et al. | 324 | 427 |
| | BQ | 4,207,611 | 6/10/80 | Gordon | 364 | 580 |
| | BR | 4,315,204 | 2/9/82 | Sievers et al. | 322 | 28 |
| | BS | 4,316,185 | 2/16/82 | Watrous et al. | 340 | 636 |
| | BT | 4,322,685 | 3/30/82 | Frailing et al. | 324 | 429 |
| | BU | 4,363,407 | 12/14/82 | Barkler et al. | 209 | 3.3 |
| | BV | 4,369,407 | 1/18/83 | Korbell | 324 | 416 |
| J7 | BW | 4,412,169 | 10/25/83 | Dell'Orto | 320 | 64 |

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|----|----|--------------|----------|---------|-------|-----------|--------------------|
| J7 | BX | 03282276 | 12/12/91 | Japan | | | Abstract Only |
| | BY | 03274479 | 12/5/91 | Japan | | | Abstract Only |
| | BZ | 5216550 | 8/27/93 | Japan | | | Abstract Only |
| J7 | CA | 59017894 | 1/30/84 | Japan | | | Abstract Only |

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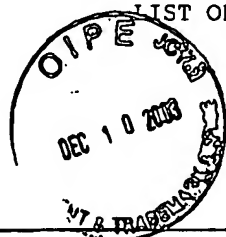
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| J7 | CB | "Internal Resistance: Harbinger of Capacity Loss in Starved Electrolyte Sealed Lead Acid Batteries, by Vaccaro, F.J. et al., AT&T Bell Laboratories, 1987 IEEE, Ch. 2477, pp. 128,131. |
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| JT | CC | 4,390,828 | 6/28/83 | Converse et al. | 320 | 32 |
| | CD | 4,392,101 | 7/5/83 | Saar et al. | 320 | 20 |
| | CE | 4,396,880 | 8/2/83 | Windebank | 320 | 21 |
| | CF | 4,408,157 | 10/4/83 | Beaubien | 324 | 62 |
| | CG | 4,423,378 | 12/27/83 | Marino et al. | 324 | 427 |
| | CH | 4,423,379 | 12/27/83 | Jacobs et al. | 324 | 429 |
| | CI | 4,424,491 | 1/3/84 | Bobbett et al. | 324 | 433 |
| | CJ | 4,459,548 | 7/10/84 | Lentz et al. | 324 | 158 |
| | CK | 4,514,694 | 4/30/85 | Finger | 324 | 429 |
| | CL | 4,520,353 | 5/28/85 | McAuliffe | 340 | 636 |
| | CM | 4,667,279 | 5/19/87 | Maier | 363 | 46 |
| | CN | 4,678,998 | 7/7/87 | Muramatsu | 324 | 427 |
| | CO | 4,679,000 | 7/7/87 | Clark | 324 | 428 |
| JT | CP | 4,697,134 | 9/29/87 | Burkum et al. | 320 | 48 |

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| JT | CQ / EP 0 772 056 A1 | 5/7/97 | EPO | | | X |
| JT | CR / EP 0 637 754 A1 | 2/8/95 | EPO | | | X |
| JT | CS / 2 088 159 A | 6/3/82 | Great Britain | | | X |

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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| JT | CT / | IEEE Recommended Practice For Maintenance, Testings, and Replacement of Large Lead Storage Batteries for Generating Stations and Substations, The Institute of Electrical and Electronics Engineers, Inc., ANSI/IEEE Std. 450-1987, 3/9/1987, pp. 7-15. |
| JT | CU / | "Field and Laboratory Studies to Assess the State of Health of Valve-Regulated Lead Acid Batteries: Part I Conductance/Capacity Correlation Studies", by D. Feder et al., IEEE, August 1992, pgs. 218-233. |

EXAMINER:

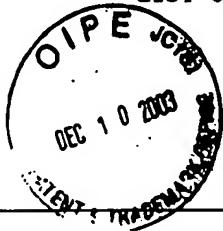
DATE CONSIDERED: 9-29-02

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Atty. Docket No.:
C382.12-0163Serial No.:
10/656,526

LIST OF PATENTS AND PUBLICATIONS FOR
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Applicant:

Kevin I. Bertness

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U.S. PATENT DOCUMENTS

| Examiner Initial | Document No. | Date | Name | Class | Sub Class | Filing Date If Appropriate |
|------------------|--------------|-----------|----------|------------------|-----------|----------------------------|
| JT | CV | 4,707,795 | 11/17/87 | Alber et al. | 364 | 550 |
| | CW | 4,709,202 | 11/24/87 | Koenck et al. | 320 | 43 |
| | CX | 4,710,861 | 12/1/87 | Kanner | 363 | 46 |
| | CY | 4,719,428 | 1/12/88 | Liebermann | 324 | 436 |
| | CZ | 4,743,855 | 5/10/88 | Randin et al. | 324 | 430 |
| | DA | 4,816,768 | 3/28/89 | Champlin | 324 | 428 |
| | DB | 4,820,966 | 4/11/89 | Fridman | 320 | 32 |
| | DC | 4,825,170 | 4/25/89 | Champlin | 324 | 436 |
| | DD | 4,849,700 | 7/18/89 | Morioka et al. | 324 | 427 |
| | DE | 4,881,038 | 11/14/89 | Champlin | 324 | 426 |
| | DF | 4,912,416 | 3/27/90 | Champlin | 324 | 430 |
| | DG | 4,929,931 | 5/29/90 | McCuen | 340 | 636 |
| | DH | 4,931,738 | 6/5/90 | MacIntyre et al. | 324 | 435 |
| | DI | 4,947,124 | 8/7/90 | Hauser | 324 | 430 |
| | DJ | 4,956,597 | 9/11/90 | Heavey et al. | 320 | 14 |
| JT | DK | 4,968,941 | 11/6/90 | Rogers | 324 | 428 |

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| | | Document No. | Date | Country | Class | Sub Class | Translation Yes No |
|----|----|--------------|----------|---------|-------|-----------|--------------------|
| JT | DL | WO 93/22666 | 11/11/93 | WIPO | 1 | 1 | X |
| JT | DM | WO 98/58270 | 12/23/98 | WIPO | 1 | 1 | X |

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| JT | DN | "Battery Impedance", by E. Willihnganz et al., <u>Electrical Engineering</u> , September 1959, pgs. 922-925. |
| JT | DO | "JIS Japanese Industrial Standard-Lead Acid Batteries for Automobiles", <u>Japanese Standards Association UDC</u> , 621.355.2:629.113.006, Nov. 1995. |

EXAMINER:

DATE CONSIDERED: 9-29-04

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10/656,526

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| JT | DP 5,004,979 | 4/2/91 | Marino et al. | 324 | 160 | |
| | DQ 5,032,825 | 7/16/91 | Xuznicki | 340 | 636 | |
| | DR 5,047,722 | 9/10/91 | Wurst et al. | 324 | 430 | |
| | DS 5,087,881 | 2/11/92 | Peacock | 324 | 378 | |
| | DT 5,126,675 | 6/30/92 | Yang | 324 | 435 | |
| | DU 5,140,269 | 8/18/92 | Champlin | 324 | 433 | |
| | DV 5,144,248 | 9/1/92 | Alexandres et al. | 324 | 428 | |
| | DW 5,170,124 | 12/8/92 | Blair et al. | 324 | 434 | |
| | DX 5,204,611 | 4/20/93 | Nor et al. | 320 | 21 | |
| | DY 5,214,370 | 5/25/93 | Harm et al. | 320 | 35 | |
| | DZ 5,214,385 | 5/25/93 | Gabriel et al. | 324 | 434 | |
| | EA 5,241,275 | 8/31/93 | Fang | 324 | 430 | |
| | EB 5,254,952 | 10/19/93 | Salley et al. | 324 | 429 | |
| | EC 5,281,919 | 1/25/94 | Palanisamy | 324 | 427 | |
| | ED 5,281,920 | 1/25/94 | Wurst | 324 | 430 | |
| | EE 5,295,078 | 3/15/94 | Stich et al. | 364 | 483 | |
| | EF 5,298,797 | 3/29/94 | Redl | 307 | 246 | |
| | EG 5,300,874 | 4/5/94 | Shimamoto et al. | 320 | 15 | |
| JT | EH 5,302,902 | 4/12/94 | Groehl | 324 | 434 | |

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| | Document No. | Date | Country | Class | Sub Class | Translation Yes No |
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John T. ...

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| Examiner Initial | Document No. | Date | Name | Class | Sub Class | Filing Date If Appropriate |
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| JT | EK | 5,331,268 | 7/19/94 | Patino et al. | 320 | 20 |
| | EL | 5,336,993 | 8/9/94 | Thomas et al. | 324 | 158.1 |
| | EM | 5,352,968 | 10/4/94 | Reni et al. | 320 | 35 |
| | EN | 5,343,380 | 8/30/94 | Champlin | 363 | 46 |
| | EO | 5,365,160 | 11/15/94 | Leppo et al. | 320 | 22 |
| | EP | 5,365,453 | 11/15/94 | Startup et al. | 364 | 481 |
| | EQ | 5,381,096 | 1/10/95 | Hirzel | 324 | 427 |
| | ER | 5,426,371 | 6/20/95 | Salley et al. | 324 | 429 |
| | ES | 5,432,426 | 7/11/95 | Yoshida | 320 | 20 |
| | ET | 5,434,495 | 7/18/95 | Toko | 320 | 44 |
| | EU | 5,442,274 | 8/15/95 | Tamai | 320 | 23 |
| | EV | 5,457,377 | 10/10/95 | Jonsson | 320 | 5 |
| | EW | 5,449,996 | 9/12/95 | Matsumoto et al. | 320 | 20 |
| | EX | 5,449,997 | 9/12/95 | Gilmore et al. | 320 | 39 |
| | EY | 5,485,090 | 1/16/96 | Stephens | 324 | 433 |
| | EZ | 5,519,383 | 5/21/96 | De La Rosa | 340 | 636 |
| | FA | 5,528,148 | 6/18/96 | Rogers | 324 | 426 |
| | FB | 5,550,485 | 8/27/96 | Falk | 324 | 772 |
| JT | FC | 5,561,380 | 10/1/96 | Sway-Tin et al. | 324 | 509 |

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| | Document No. | Date | Country | Class | Sub Class | Translation Yes No |
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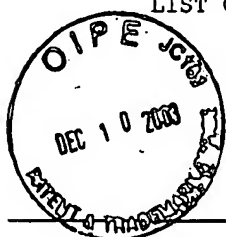
John Terapan

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| JT | FF | 5,562,501 | 10/8/96 | Kinoshita et al. | 439 | 852 |
| | FG | 5,572,136 | 11/5/96 | Champlin | 324 | 426 |
| | FH | 5,574,355 | 11/12/96 | McShane et al. | 320 | 39 |
| | FI | 5,585,728 | 12/17/96 | Champlin | 324 | 427 |
| | FJ | 5,592,093 | 1/7/97 | Klingbiel | 324 | 426 |
| | FK | 5,596,260 | 1/21/97 | Moravec et al. | 320 | 30 |
| | FL | 5,598,098 | 1/28/97 | Champlin | 324 | 430 |
| | FM | 5,602,462 | 2/11/97 | Stich et al. | 323 | 258 |
| | FN | 5,606,242 | 2/25/97 | Hull et al. | 320 | 48 |
| | FO | 5,621,298 | 4/15/97 | Harvey | 320 | 5 |
| | FP | 5,642,031 | 6/24/97 | Brotto | 320 | 21 |
| | FQ | 5,650,937 | 7/22/97 | Bounaga | 364 | 483 |
| | FR | 5,652,501 | 7/29/97 | McClure et al. | 320 | 17 |
| | FS | 5,675,234 | 10/7/97 | Greene | 320 | 15 |
| | FT | 5,677,077 | 10/14/97 | Faulk | 429 | 90 |
| | FU | 5,699,050 | 12/16/97 | Kanazawa | 340 | 636 |
| | FV | 5,701,089 | 12/23/97 | Perkins | 327 | 772 |
| | FW | 5,717,336 | 2/10/98 | Basell et al. | 324 | 430 |
| JT | FX | 5,757,192 | 5/26/98 | McShane et al. | 324 | 427 |

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| | Document No. | Date | Country | Class | Sub Class | Translation Yes No |
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EXAMINER:

Adrian Tereanu

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9-29-04

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|------------------|--------------|----------|------------------|-------|-----------|----------------------------|
| JT | GA 5,773,978 | 6/30/98 | Becker | 324 | 430 | |
| | GB 5,789,899 | 8/4/98 | van Phuoc et al. | 320 | 30 | |
| | GC 5,793,359 | 8/11/98 | Ushikubo | 345 | 169 | |
| | GD 5,821,756 | 10/13/98 | McShane et al. | 324 | 430 | |
| | GE 5,831,435 | 11/3/98 | Troy | 324 | 426 | |
| | GF 5,872,443 | 2/16/99 | Williamson | 320 | 21 | |
| | GG 5,914,605 | 6/22/99 | Bertness | 324 | 430 | |
| | GH 5,945,829 | 8/31/99 | Bertness | 324 | 430 | |
| | GI 3,356,936 | 12/5/67 | Smith | 324 | 29.5 | |
| | GJ 5,488,300 | 1/30/96 | Jamieson | 324 | 432 | |
| | GK 6,002,238 | 12/14/99 | Champlin | 320 | 134 | |
| | GL 6,037,777 | 3/14/00 | Champlin | 324 | 430 | |
| | GM 6,051,976 | 4/18/00 | Bertness | 324 | 426 | |
| | GN 6,081,098 | 6/27/00 | Bertness et al. | 320 | 134 | |
| | GO 6,091,245 | 7/18/00 | Bertness | 324 | 426 | |
| | GP 6,104,167 | 8/15/00 | Bertness et al. | 320 | 132 | |
| JT | GQ 6,137,269 | 10/24/00 | Champlin | 320 | 150 | |

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| | Document No. | Date | Country | Class | Sub Class | Translation Yes No |
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| JT | GR DE 29 26 716 B1 | 1/15/81 | Germany | | | X |
| JT | GS 0 022 450 A1 | 1/21/81 | EPO | | | X |

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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| JT | GT | "Performance of Dry Cells", by C. Hambuechen, Preprint of <u>Am. Electrochem. Soc.</u> , April 18-20, 1912, paper No. 19, pgs. 1-5. |
| JT | GU | "A Bridge for Measuring Storage Battery Resistance", by E. Willihnanz, <u>The Electrochemical Society</u> , preprint 79-20, April 1941, pgs. 253-258. |

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| Examiner Initial | Document No. | Date | Name | Class | Sub Class | Filing Date If Appropriate |
|------------------|--------------|-----------|----------|-----------------------|-----------|----------------------------|
| JT | GV | 3,562,634 | 2/9/71 | Latner | 31 | 04 |
| | GW | 4,379,990 | 4/12/83 | Sievers et al. | 322 | 99 |
| | GX | 5,144,218 | 9/1/92 | Bosscha | 320 | 44 |
| | GY | 5,315,287 | 5/24/94 | Sol | 340 | 455 |
| | GZ | 5,469,043 | 11/21/95 | Cherng et al. | 320 | 31 |
| | HA | 5,546,317 | 8/13/96 | Andrieu | 364 | 481 |
| | HB | 5,583,416 | 12/10/96 | Klang | 320 | 22 |
| | HC | 5,589,757 | 12/31/96 | Klang | 320 | 22 |
| | HD | 5,656,920 | 8/12/97 | Cherng et al. | 320 | 31 |
| | HE | 5,710,503 | 1/20/98 | Sideris et al. | 320 | 6 |
| | HF | 5,760,587 | 6/2/98 | Harvey | 324 | 434 |
| | HG | 5,808,469 | 9/15/98 | Kopera | 324 | 43.4 |
| | HH | 6,008,652 | 12/28/99 | Theofanopoulos et al. | 324 | 434 |
| | HI | 6,009,369 | 12/28/99 | Boisvert et al. | 701 | 99 |
| | HJ | 6,031,354 | 2/29/00 | Wiley et al. | 320 | 116 |
| | HK | 6,037,751 | 3/14/00 | Klang | 320 | 160 |
| | HL | 6,072,299 | 6/6/00 | Kurie et al. | 320 | 112 |
| | HM | 6,094,033 | 7/25/00 | Ding et al. | 320 | 132 |
| | HN | 6,163,156 | 12/19/00 | Bertness | 324 | 426 |
| | HO | 6,172,483 | 1/9/01 | Champlin | 320 | 134 |
| JT | HP | 6,172,505 | 1/9/01 | Bertness | 324 | 430 |

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| | | Document No. | Date | Country | Class | Sub Class | Translation Yes No |
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| JT | HQ | 2 749 397 | 12/5/97 | France | | | X |
| JT | HR | 59215674 | 12/5/84 | Japan | | | Abstract Only |

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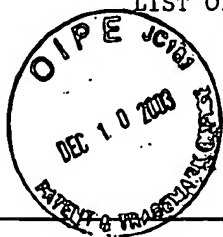
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|------------------|--------------|-----------|----------|--------------------|-----------|----------------------------|
| JT | HT | 3,989,544 | 11/2/76 | Santo | 429 | 65 |
| | HU | 4,745,349 | 5/17/88 | Palanisamy et al. | 320 | 22 |
| | HV | 4,876,495 | 10/24/89 | Palanisamy et al. | 320 | 18 |
| | HW | 4,937,528 | 6/26/90 | Palanisamy | 324 | 430 |
| | HX | 4,968,942 | 11/6/90 | Palanisamy | 324 | 430 |
| | HY | 5,179,335 | 1/12/93 | Nor | 320 | 21 |
| | HZ | 5,266,880 | 11/30/93 | Newland | 320 | 14 |
| | IA | 5,451,881 | 9/19/95 | Finger | 324 | 433 |
| | IB | 5,705,929 | 1/6/98 | Caravello et al. | 324 | 430 |
| | IC | 5,717,937 | 2/10/98 | Fritz | 395 | 750.01 |
| | ID | 5,862,515 | 1/19/99 | Kobayashi et al. | 702 | 63 |
| | IE | 5,895,440 | 4/20/99 | Proctor et al. | 702 | 63 |
| | IF | 5,929,609 | 7/27/99 | Joy et al. | 322 | 25 |
| | IG | 6,072,300 | 6/6/00 | Tsuji | 320 | 116 |
| | IH | 4,659,977 | 4/21/87 | Kissel et al. | 320 | 64 |
| | II | 4,913,116 | 4/3/90 | Katogi et al. | 123 | 425 |
| | IJ | 5,160,881 | 11/3/92 | Schramm et al. | 322 | 7 |
| | IK | 5,338,515 | 8/16/94 | Dalla Betta et al. | 422 | 95 |
| | IL | 5,537,967 | 7/23/96 | Tashiro et al. | 123 | 792.1 |
| | IM | 5,548,273 | 8/20/96 | Nicol et al. | 340 | 439 |
| JT | IN | 5,747,909 | 5/5/98 | Syverson et al. | 310 | 156 |

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| JT | IO | 62-180284 | 8/7/87 | Japan | | | Abstract |
| JT | IP | 7-128414 | 5/19/95 | Japan | | | Abstract |

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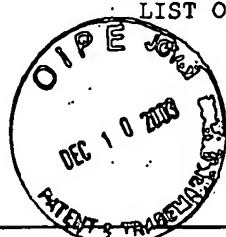
John T. L.

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| Examiner Initial | Document No. | Date | Name | Class | Sub Class | Filing Date If Appropriate |
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| JT | IR 6,114,834 | 9/5/00 | Parise | 320 | 109 | |
| | IS 6,150,793 | 11/21/00 | Lesesky et al. | 320 | 104 | |
| | IT 3,876,931 | 4/8/75 | Godshalk | 324 | 29.5 | |
| | IU 5,347,163 | 9/13/94 | Yoshimura | 307 | 66 | |
| | IV 5,939,861 | 8/17/99 | Joko et al. | | | |
| | IW 5,339,018 | 8/16/94 | Brokaw | 320 | 35 | |
| | IX 5,412,323 | 5/2/95 | Kato et al. | 324 | 429 | |
| | IY 5,426,416 | 6/20/95 | Jefferies et al. | 340 | 664 | |
| | IZ 5,825,174 | 10/20/98 | Parker | 324 | 106 | |
| | JA 5,939,855 | 8/17/99 | Proctor et al. | 320 | 104 | |
| | JB 5,254,952 | 10/19/93 | Salley et al. | 324 | 429 | |
| | JC 4,217,645 | 8/12/80 | Barry et al. | 364 | 483 | |
| | JD 4,633,418 | 12/30/86 | Bishop | 364 | 554 | |
| | JE 5,321,626 | 6/14/94 | Palladino | 364 | 483 | |
| | JF 5,969,625 | 10/19/99 | Russo | 340 | 636 | |
| | JG 6,222,369 | 4/24/01 | Champlin | 324 | 430 | |
| | JH 6,225,808 | 5/1/01 | Varghese et al. | 324 | 426 | |
| | JI 6,249,124 | 6/19/01 | Bertness | 324 | 426 | |
| | JJ 6,259,254 | 7/10/01 | Klang | 324 | 427 | |
| | JK 6,262,563 | 7/17/01 | Champlin | 320 | 134 | |
| | JL 6,294,896 | 9/25/01 | Champlin | 320 | 134 | |
| JT | JM 6,294,897 | 9/25/01 | Champlin | 320 | 153 | |

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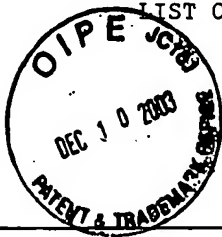
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| JT | JN | 4-8636 | 1/13/92 | Japan | | | X (Abstract) |
| JT | JO | 63027776 | 2/5/88 | Japan | | | Abstract Only |

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| JT | JP 4,379,989 | 4/12/83 | Kurz et al. | 320 | 26 | |
| | JQ 4,680,528 | 7/14/87 | Mikami et al. | 320 | 32 | |
| | JR 5,633,985 | 5/27/97 | Severson et al. | 395 | 2.76 | |
| | JS 5,739,667 | 4/14/98 | Matsuda et al. | 320 | 5 | |
| | JT 4,024,953 | 5/1977 | Nailor, III | 206 | 344 | |
| | JU 6,250,973 | 6/2001 | Lowery et al. | 439 | 763 | |
| | JV 6,254,438 | 7/2001 | Gaunt | 439 | 755 | |
| | JW 6,304,087 | 10/16/01 | Bertness | 324 | 426 | |
| | JX 6,310,481 | 10/30/01 | Bertess | 324 | 430 | |
| | JY 6,313,607 | 11/6/01 | Champlin | 320 | 132 | |
| | JZ 6,313,608 | 11/6/01 | Varghese et al. | 32 | 132 | |
| | KA 6,316,914 | 11/13/01 | Bertness | 320 | 134 | |
| | KB 5,435,185 | 7/25/95 | Eagan | 73 | 587 | |
| | KC 5,445,026 | 8/29/95 | Eagan | 73 | 591 | |
| | KD 4,667,143 | 5/19/87 | Cooper et al. | 320 | 22 | |
| | KE 4,847,547 | 7/11/89 | Eng, Jr. et al. | 320 | 35 | |
| | KF 5,574,355 | 11/12/96 | McShane et al. | 320 | 39 | |
| JT | KG 4,663,580 | 5/5/87 | Wortman | 320 | 35 | |

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| JT | KH WO 99/23738 | 5/14/99 | WIPO | | | X |
| JT | KI WO 94/05069 | 3/3/94 | PCT | | | X |

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| JT | KK | Burr-Brown Corporation, "Design A 60 Hz Notch Filter with the UAF42", 1/94, AB-071, 1994. |
| JT | KL | National Semiconductor Corporation, "LMF90-4 th -Order Elliptic Notch Filter", 12/94, RRD-B30M115, December 1994. |

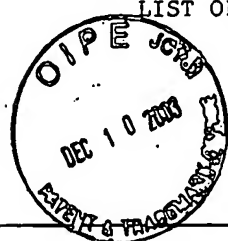
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C382.12-0163Serial No.:
10/656,526

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Kevin I. Bertness

Filing Date

Group Art:

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| | KO | 6,331,762 | 12/18/01 | Bertness | 320 | 134 |
| | KP | 6,332,113 | 12/18/01 | Bertness | 702 | 63 |
| | KQ | 4,297,639 | 10/27/81 | Branham | 324 | 429 |
| | KR | 5,653,659 | 8/5/97 | Kunibe et al. | 477 | 111 |
| | KS | 6,161,640 | 12/19/00 | Yamaguchi | 180 | 65.8 |
| | KT | 4,351,405 | 6/28/82 | Fields et al. | 180 | 65 |
| | KU | 6,359,441 | 3/16/02 | Bertness | 324 | 426 |
| | KV | 4,047,091 | 9/1997 | Hutchines et al. | 363 | 59 |
| | KW | 5,653,659 | 8/1997 | Kunibe et al. | 477 | 111 |
| | KX | 5,637,978 | 6/1997 | Kellett et al. | 320 | 2 |
| | KY | 5,095,223 | 3/1992 | Thomas | 307 | 110 |
| | KZ | 5,194,799 | 3/1993 | Tomantschger | 320 | 2 |
| JT | LA | 5,754,417 | 5/1998 | Nicollini | 363 | 60 |
| | LB | | | | | |

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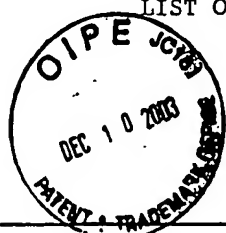
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| JT | LE | "Alligator Clips with Wire Penetrators" J.S. Popper, Inc. product information, downloaded from http://www.jspopper.com/ , undated |
| JT | LF | "#12: LM78S40 Simple Switcher DC to DC Converter", ITM e-Catalog, downloaded from http://www.pcbcafe.com , undated |
| JT | LG | "Simple DC-DC Converts Allows Use of Single Battery", Electronix Express, downloaded from http://www.elexp.com/t_dc-dc.htm , undated |

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| | LI | 6,140,797 | 10/2000 | Dunn | 320 | 105 |
| | LJ | 6,181,545 | 1/2001 | Amatucci et al. | 361 | 502 |
| | LK | 6,346,795 | 2/2002 | Haraguchi et al. | 320 | 136 |
| | LM | 6,347,958 | 2/2002 | Tsai | 439 | 488 |
| | LN | 6,351,102 | 2/26/02 | Troy | 320 | 139 |
| | LO | 6,359,441 | 3/19/02 | Bertness | 324 | 426 |
| | LP | 6,363,303 | 3/26/02 | Bertness | 701 | 29 |
| | LQ | 5,037,778 | 8/6/91 | Stark et al. | 437 | 216 |
| | LR | 6,144,185 | 11/7/00 | Dougherty et al. | 320 | 132 |
| | LS | 5,711,648 | 1/27/98 | Hammerslag | 414 | 786 |
| | LT | 5,927,938 | 7/27/99 | Hammerslag | 414 | 809 |
| | LU | 5,951,229 | 9/14/99 | Hammerslag | 414 | 398 |
| | LV | 5,961,561 | 10/5/99 | Wakefield, II | 701 | 29 |
| | LW | 5,961,604 | 10/5/99 | Anderson et al. | 709 | 229 |
| | LX | 6,236,332 | 5/22/01 | Conkright et al. | 340 | 825.06 |
| | LY | 6,351,102 | 2/26/02 | Troy | 320 | 139 |
| | LZ | 5,821,757 | 10/13/98 | Alvarez et al. | 324 | 434 |
| JT | MA | 6,167,349 | 12/26/00 | Alvarez | 702 | 63 |

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| JT | MC | "DC-DC Converter Basics", <u>Power Designers</u> , downloaded from http://www.powederdesigners.com/InforWeb.design_center/articles/DC-DC/converter.shtm , undated |
| | MD | |

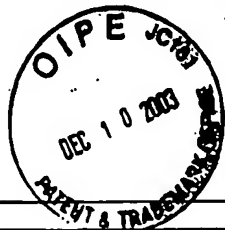
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| | MF | 4,361,809 | 11/1982 | Bil et al. | 324 | 426 |
| | MG | 6,392,414 | 5/21/02 | Bertness | 324 | 429 |
| | MH | 6,417,669 | 7/9/02 | Champlin | 324 | 426 |
| | MI | 6,424,158 | 7/23/02 | Klang | 324 | 433 |
| | MJ | 6,441,585 | 8/17/02 | Bertness | 320 | 132 |
| | MK | 6,445,158 | 9/3/02 | Bertness et al. | 320 | 104 |
| | ML | 6,384,608 | 5/7/02 | Namaky | 324 | 425 |
| | MM | 6,388,448 | 5/14/02 | Cervas | 324 | 426 |
| | MN | 6,307,349 | 10/23/01 | Koenck et al. | 320 | 112 |
| | MO | 6,411,098 | 6/25/02 | Laletin | 324 | 436 |
| | MP | 6,456,045 | 9/24/02 | Troy et al. | 320 | 139 |
| | MQ | 6,466,025 | 10/15/02 | Klang | 324 | 429 |
| | MR | 6,466,026 | 10/15/02 | Champlin | 324 | 430 |
| | MS | 4,564,798 | 1/14/86 | Young | 320 | 6 |
| | MT | 5,563,496 | 10/8/96 | McClure | 320 | 48 |
| JT | MU | 5,796,239 | 8/18/98 | van Phuoc et al. | 320 | 107 |

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| JT | MW | 09061505 | 3/7/97 | Japan | | | Abstract Only |
| JT | MX | 10056744 | 2/24/98 | Japan | | | Abstract Only |

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| JT | MZ | "Notification of Transmittal of The International Search Report or the Declaration", PCT/US03/07546. No 3ak |

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| | NB | 6,495,990 B2 | 12/17/02 | Champlin | 320 | 132 |
| | NC | 4,385,269 | 5/24/83 | Aspinwall et al. | 320 | 14 |
| | ND | 4,686,442 | 8/11/87 | Radomski | 320 | 17 |
| | NE | 6,061,638 | 5/9/00 | Joyce | 702 | 63 |
| | NF | 6,359,442 | 3/19/02 | Henningson et al. | 324 | 426 |
| | NG | 5,541,489 | 7/30/96 | Dunstan | 320 | 2 |
| | NH | 6,424,157 | 7/23/02 | Gollomp et al. | 324 | 430 |
| | NI | 6,534,993 | 3/18/03 | Bertness | 324 | 433 |
| | NJ | 6,544,078 | 4/8/03 | Palmisano et al. | 439 | 762 |
| | NK | 6,556,019 | 4/29/03 | Bertness | 324 | 426 |
| | NL | 6,566,883 | 5/20/03 | Vonderhaar et al. | 324 | 426 |
| | NM | 6,586,941 | 7/1/03 | Bertness et al. | 324 | 426 |
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| | NO | 2002/0171428 | 11/21/02 | Bertness | 324 | 426 |
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| JT | NR | WO 01/51947 | 7/19/01 | WIPO | | | X |
| JT | NS | WO 98/04910 | 2/5/98 | WIPO | | | X |
| JT | NT | WO 00/62049 | 10/19/00 | WIPO | | | X |
| | NU | | | | | | |
| | NV | | | | | | |

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| JT | NW | "Notification of Transmittal of The International Search Report or the Declaration", PCT/US03/06577, no date. |
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